

ABSTRACT

A variable displacement compressor capable of controlling a piston stroke by openably controlling a displacement control valve to regulate a pressure in a crank chamber, comprising the displacement control valve disposed in a passageway from a discharge chamber to the crank chamber, and a fixed orifice provided in a passageway from the crank chamber to a suction chamber, the displacement control valve further comprising a pressure sensing member for the pressure in the suction chamber or the crank chamber, a valve element having a valve part opened and closed in response to the operation of the pressure sensing member, a valve chamber for disposing the valve part therein and allowing the pressure in the crank chamber to act therein, a partition wall disposed around the valve element, a pressure chamber partitioned from the valve chamber by the partition wall and allowing the pressure in the suction chamber to act therein, and a solenoid provided to the other end of the valve element, wherein a flow passage of non-contact structure is formed in the partition wall, and the number of sliding parts is reduced to lower a sliding resistance.